

WHAT IS CLAIMED IS:

- 1 1. A network infrastructure for supporting communications with
2 mobile devices, comprising:
3 a communications network;
4 a mobile resources server coupled to the communications
5 network;
6 a mobile resources proxy coupled to the communications
7 network;
8 a mobile device coordinator coupled to the communications
9 network;
10 a security server coupled to the communications network; and
11 a mobile device access point coupled to the communications
12 network and configured for communications with mobile devices.
- 1 2. The network infrastructure of claim 1, wherein the mobile
2 resources server, mobile resources proxy, mobile device coordinator, and
3 security server are all server functions provided by a single server computer.
- 1 3. The network infrastructure of claim 1, wherein more than one
2 of the mobile resources server, mobile resources proxy, mobile device
3 coordinator, and security server are server functions provided by a single
4 server computer.
- 1 4. The network infrastructure of claim 1, wherein the
2 communications network is a local area network (LAN).
- 1 5. The network infrastructure of claim 1, wherein the
2 communications network is a shopping area communications network.

1 6. The network infrastructure of claim 1, further comprising:
2 a wireless access proxy configured to send and receive non
3 internet protocol (IP) communications.

1 7. The network infrastructure of claim 6, wherein the mobile
2 device access point is configured to send and receive internet protocol (IP)
3 communications.

1 8. The network infrastructure of claim 6, wherein the wireless
2 access proxy includes a wireless network interface.

1 9. The network infrastructure of claim 8, wherein the wireless
2 access proxy includes a request interpreter.

1 10. The network infrastructure of claim 9, wherein the wireless
2 access proxy includes an IP network interface.

1 11. A communications system for communicating with mobile
2 wireless devices, comprising:
3 a communications network;
4 a wireless device access point coupled to the communications
5 network;
6 at least one mobile wireless device configured to communicate
7 with the wireless access point when the mobile wireless device is within a
8 communications range; and
9 a centralized management system configured to manage and
10 control mobile device resources.

1 12. The communications network of claim 11, wherein the
2 centralized management system includes a mobile resources server, a mobile
3 resources proxy, a mobile device coordinator, and a security server.

1 13. The communications network of claim 11, wherein the
2 centralized management system includes more than one of a mobile
3 resources server, a mobile resources proxy, a mobile device coordinator, and
4 a security server.

1 14. The communications network of claim 11, wherein the
2 communications network is a local area network (LAN).

1 15. The communications network of claim 11, wherein the
2 communications network is a shopping area communications network.

1 16. The communications network of claim 11, further comprising:
2 a wireless access proxy configured to send and receive non
3 internet protocol (IP) communications.

1 17. The communications network of claim 16, wherein the mobile
2 device access point is configured to send and receive internet protocol (IP)
3 communications.

1 18. The communications network of claim 16, wherein the wireless
2 access proxy includes a wireless network interface.

1 19. The network infrastructure of claim 18, wherein the wireless
2 access proxy includes a request interpreter.

1 20. The network infrastructure of claim 19, wherein the wireless
2 access proxy includes an IP network interface.

1 21. A method of providing a web page to a mobile device using a
2 Bluetooth wireless transceiver, comprising:
3 establishing a wireless communications link with the mobile
4 device;
5 receiving a web page request from the mobile device;
6 interpreting the request;
7 sending the request to a mobile resources proxy that verifies the
8 request with a security server and after verification retrieves the web page;
9 receiving the web page from the mobile resources proxy; and
10 sending the web page to the mobile device.

1 22. A method of providing a web page to a mobile device using an
2 IEEE 802.11 wireless transceiver, comprising:
3 establishing a wireless communications link with a local area
4 network (LAN) access point;
5 locating a mobile resources server;
6 requesting a web proxy location;
7 receiving web proxy location;
8 requesting the web page through LAN access point and through
9 mobile resource proxy; and
10 receiving the web page from the mobile resources proxy.

1 23. A method of retrieving a web page by a mobile device using an
2 IEEE 802.11 wireless transceiver, comprising:
3 establishing a wireless communications link with a local area
4 network (LAN) access point;
5 requesting a web page via a network gateway;
6 intercepting the request by a firewall;

7 sending the request by the firewall to a mobile resources proxy.
8 verifying request by the mobile resources proxy using a mobile
9 resources server;
10 receiving the web page through the mobile resources proxy.

1 24. A method of providing a secure document to a mobile device
2 using a Bluetooth transceiver, comprising:

3 establishing a wireless communications link with the mobile
4 device;
5 receiving a web page request from the mobile device;
6 interpreting the request;
7 sending the request to a mobile resources proxy;
8 providing an authorization for to the mobile device;
9 receiving authorization information from the mobile device;
10 sending the authorization information to a mobile resources
11 server that verifies the authorization information;
12 receiving the web page from the mobile resources proxy; and
13 sending the web page to the mobile device.

1 25. A method of providing location information to a mobile device,
2 comprising:

3 receiving a location request from the mobile device;
4 sending the request to a navigation service that requests the
5 mobile device location from a mobile device coordinator and receives a
6 current location from the mobile device coordinator;
7 receiving a map from the navigation service, the map being
8 developed by the navigation service based on the current location;
9 sending the map to the mobile device.

- 1 26. A method of providing a messaging service for a mobile device,
2 comprising:
3 receiving a registration message to a chat service;
4 determining if a message is to be sent to the mobile device;
5 locating the mobile device;
6 sending the message to an access point that is in
7 communications with the mobile device, the access point sending the
8 message to the mobile device.